

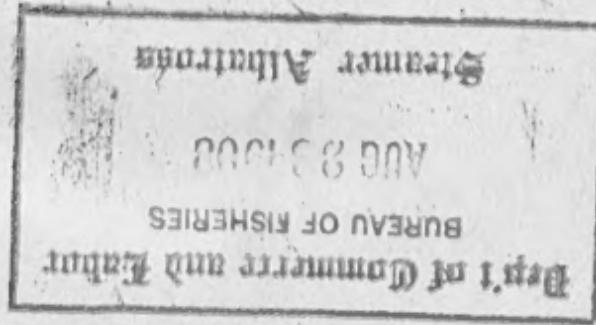
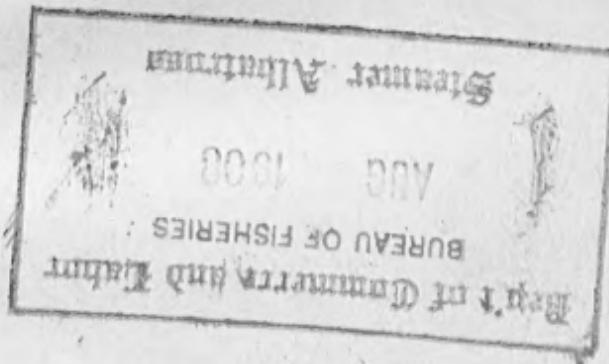
No 3.

From D. 5154

to D. 5215.

Roenders: Please mark on
this page the next Hy. no. to be
used. -First no. this
book 05154.

H. 4906
next Hy. = 4907



Neet Hydr No 4909

OK Pl

Dredge } No. 5154 Date, Feb. 19, 1908
Hydrog. } Reel TW Shot 36 lbs.

Sdg. Mch. Tanner Reel TW Shot 36 lbs.

Turns 12 Cor'n Depth 12 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample plentiful

Character of Bottom Coal

Thermom. { Make Cor'n used Instr.
No. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 81° Time 10.25 } Air { 85°
81° Time 86°

Density: Surf. 1.02437 fms.

Wind: Direction N x N. Force 2

Baromet. 29.74 Amt. of Clouds 5 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

Baken Pt. S 11° W 0.7 mi.

General Locality Pt. off Kambalikam Id 242° W
Similan Ids. (E) N 39° W.

Position 4° 14' 50" N., 119° 58' 45" E.

Chart used: No. 1852 H.O. Ed'n

Drift: Direction S 42° W Distance 3 mi.

Depth of Haul bottom

Apparatus and Rig used 1/2 Agaling N.R., 2 trimming
weights, 1 tail weight, 5 glass flats,
1 chain, 1 mud bag.

Time towing h. 13 m.

Remarks: Net was on bottom from
time 20 fath. was out.

Deck Officer Mr. Maynard Recorder C. H. Long
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.									
A. M. DOWN.	UP.	A. M.		A. M. DOWN.	UP.	A. M.							
10	22	50	10	28	25	-	0	10	26	20	10	42	80
10	23	05	10	28	10	12	400	20	10	27	40		
							200	30	10	35	20	10	40
							300						
							400						
							500						
							600						
							700						
							800						
							900						
							1000						
							1100						
							1200						
							1300						
							1400						
							1500						
							1600						
							1700						
							1800						
							1900						
							2000						
							2100						
							2200						
							2300						
							2400						
							2500						
							2600						
							2700						
							2800						
							2900						
							3000						
							3100						
							3200						
							3300						
							3400						
							3500						
							3600						
							3700						
							3800						
							3900						
							4000						
							4100						
							4200						
							4300						
							4400						
							4500						
							4600						
							4700						
							4800						
							4900						

OK. Pl.

Dredge } No. 5106 Date, Feb 21, 1908
Hydrog. }

Sdg. Mch. Tammey Reel 47N Shot Lead 10 lbs.

Turns 18 Cor'n Depth 18 fms.

Sdg. Cup Tallow on lead Amt. Bot'm Sample about 2 oz

Character of Bottom for sea & shell

Thermom. { Make Cor'n { Instr. Cor'n { Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { 79 Time 8:38 AM Air { 79
79 Time 8:45 " 79

Density: Surf. 1.02422 fms.

Wind: Direction N.E. Force 1

Baromet. 29.69 Amt. of Clouds 7 State of Sea S

Weather 8C

Direction and Force of Current. { Surface
Bottom

Tide

Tinakta Id.(N) 376°W. 3.4 mi.

General Locality Sulu Sea

Kabankawan Id. 376°W. 124°E. Bakun Pt 376°E.

Position 5°-12'-50" N-119°-55'-55" E

Chart used: No 2401852 Ed'n

Drift: Direction 8288 Distance 250 yds

Depth of Haul bottom

Apparatus and Rig used 9' Albatross block, tail wt

1 glass float, harrow attachment

Time towing h. m.

Remarks:

Deck Officer Mr. Metters Recorder Roberts

SOUNDING WIRE.				FMS.	DREDGING CABLE.				
<u>A</u>	M.	DOWN.	UP.		<u>A</u>	M.	UP.	<u>A</u>	M.
8	34	40	8	35	30	0	8	37	20
8	35	-	8	37	05	18	8	39	-
				50	100	200	8	43	30
				300			8	45	10
				400					
				500					
				600					
				700					
				800					
				900					
				1000					
				1100					
				1200					
				1300					
				1400					
				1500					
				1600					
				1700					
				1800					
				1900					
				2000					
				2100					
				2200					
				2300					
				2400					
				2500					
				2600					
				2700					
				2800					
				2900					
				3000					
				3100					
				3200					
				3300					
				3400					
				3500					
				3600					
				3700					
				3800					
				3900					
				4000					
				4100					
				4200					
				4300					
				4400					
				4500					
				4600					
				4700					
				4800					
				4900					

OK Pl

Dredge } No. 5758 Date, Feb 21, 1908
Hydrog. }

Sdg. Mch. James Reel TN Shot } 10 lbs.

Turns 17 cor'n Depth 12 fms.

Sdg. Cup fallows on lead Amt. Bot'm Sample about 20g.

Character of Bottom Shore or coast sand

Thermom. { Make Tongue Instr. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 79° Time 9:25 A.M. Air { 80°
79° Time 9:22 " " 80

Density: Surf. 1.02422 fms.

Wind: Direction N.E. Force 1-2

Baromet. 29.72 Amt. of Clouds 7 State of Sea 8

Weather Very

Direction and Force of Current { Surface
Bottom

Tide 1.9 mi.

General Locality Isles. I.

Imakita Id(N) N 89° W Basin Iwabiki(W) N 20° W

Position 5° 12' 00" N - 119° 54' 30" E

Chart used: No. 701852 Ed'n

Drift: Direction N 80° W Distance 250 yds.

Depth of Haul Bottom

Apparatus and Rig used of albatross black. tail cut

1 glass float with harpoon attachment

Time towing 1 h. 1 m.

Remarks: With first hit and to 20 fms. towing

2 miles, then 10 fms more towing 1 min.

Deck Officer Tom Mather Recorder Robert

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
9 21 -	9 21 30		0	9 24 10	9 34 10	
9 21 10	9 21 10	12	100	9 25 20		
			200	9 28 20	9 32 40	
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 516 Date, Feb 1908
Hydrog }
Sdg. Mch. T. H. Reel 577. Lead 10 lbs.

Turns 12 Cor'n — Depth 12 fms.

Sdg. Cup ~~bottom~~ Amt. Bot'm Sample ~~trawl~~

Character of Bottom Clay

Thermom. { Make } none Cor'n { Instr. —
No. } Stem. —

Bottom Reading — Cor'd Temp. —

Temp. Surf. { 8.2° Time 8:34 A.M. } Air { 8.5°
Time —

Density: Surf. — fms.

Wind: Direction Calm Force 0

Baromet. 29.72 Amt. of Clouds 5 State of Sea S

Weather

Direction and Force of Current { Surface
Bottom }

Tide — 245 m.

General Locality Sulu Sea

Tiratka I. (30) 5° 72' N 120° 57' E. Borneo Sibuan (5) 5° 62' N

Position 5° 12' 45" N - 119° 55' 10" E.

Chart used: No. HO 1852 Ed'n 2

Drift: Direction S 67° W Distance 300 Yds.

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks: Only one dredge used. The bottom was very soft, the dredge stuck in the mud bottom.

Deck Officer W. J. A. Recorder A. W. S. 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. DOWN.	UP.	M.
8 26 05	8 26 45	0
8 26 20	8 26 20	100
		200
		300
		400
		500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400
		2500
		2600
		2700
		2800
		2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000
		4100
		4200
		4300
		4400
		4500
		4600
		4700
		4800
		4900

M. DOWN.	UP.	M.
8 28 00	8 29 00	0
		100
		200
		300
		400
		500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400
		2500
		2600
		2700
		2800
		2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000
		4100
		4200
		4300
		4400
		4500
		4600
		4700
		4800
		4900

OK. Pl

Drift No. 4906 (2). Date, 22 Feby., 1908

Hydrog. Reel Shot
Sdg. Mch. 1000 ft. 3 lbs.

Turns 55 Cor'n — Depth 52 fms.

Sdg. Cup 54.5 Amt. Bot'm Sample 5.5 lbs.

Character of Bottom S. 67° S.

Thermom. { Make T. C. Instr. -4
No. 108223 Cor'n { Stem. -3

Bottom Reading 54.5 Cor'd Temp. 63.5

Temp. Surf. { 82° Time 10:00 a.m. Air { 45°
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force { Surface
of Current. Bottom

Tide

Low water 4.1 m.

General Locality

Off K. I. (cont.) 68° E. San Juan Islands 54° 30' N.

Position 50° 09' 30" N - 120° 48' 30" E.

Chart used: No. CS 4514 Ed'n 2

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: No drift

Deck Officer W. C. T. Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
9	50	00	0			
9	51	00	100			
		9	200			
		57	300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 5162 Date, Sept 2, 1908

Sdg. Mch. 1000 lbs. Reel 100 ft. Shot Lead lbs.

Turns 230 Cor'n — Depth 730 fms.

Sdg. Cup 100 lbs. Amt. Bot'm Sample 20 lbs.

Character of Bottom ~~Bottom~~ (Bottom and Shallow)

Thermom. Make NW 7 Cor'n Instr. 2.4 For. No. 19402 Stem. .6

Bottom Reading 53.9° Cor'd Temp. 52.9

Temp. Surf. 82° Time 10:20 a.m. Air 90°
62° Time 11:00 a.m. Air 65°

Density: Surf. 1.02447 fms.

Wind: Direction \sqrt{N} Force 2

Baromet. 29.64 Amt. of Clouds 7 State of Sea

Weather $\frac{1}{2}$ c.

Direction and Force of Current $\begin{cases} \text{Surface} \\ \text{Bottom} \end{cases}$

Tide $\frac{1}{2}$ (1) N 71° W 5.4

General Locality Cuba Sea

Position $50^{\circ}10' \text{ West}$, $19^{\circ}47' \text{ North}$

Chart used: No. SC 4514 Ed'n 2

Drift: Direction S. 9° E. Distance 0.4 m.

Depth of Haul Bottom

Apparatus and Rig used 12

12

12

Time towing — h. 15 m.

Remarks: —

—

—

—

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
10 07 00	12 13 15		0	12 18 15	11 00 10	
09 00	12 30		100	21 22	17 00	
10 00	11 50		200	27 30	15 30	
10 17 25	10 11 25	20	300	43 15	12 15	
			400 } 10	23 25	12 00	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 43-14 Date, Feb 24, 1908
Hydrog. }
Sdg. Mch. 1 Reel Shot } 1 lbs.

Turns 18 Cor'n ~ Depth 15 fms.
Sdg. Cup 1 Amt. Bot'm Sample

Character of Bottom gr. M.

Thermom. { Make No. Cor'n { Instr.
No. / Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { 80° Time 1:02 P.M. } Air { 89°
83° Time 1:03 P.M. }

Density: Surf. 1.02442 fms.

Wind: Direction N.W. Force 2

Baromet. 29.91 Amt. of Clouds 2 State of Sea

Weather Clear

Direction and Force of Current { Surface
Bottom

Tide - 8 m.

General Locality Sulu Sea

Latitude 5° 40' N., Longitude 119° 52' E.

Position Lat. 5° 40' N. 119° 52' E. 20" E.

Chart used: No. 43-14 C. & G. Ed'n

Drift: Direction N. 30° E. Distance 4 miles.

Depth of Haul 10 fms.

Apparatus and Rig used 9' wire 13 lbs., narrow.

1 glass plate, 250 lb. weight

Time towing 1 h. 15 m.

Remarks: 1000

Deck Officer Recorder 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
10	16	10	0	10	16	2
10	16	10	100	10	19	10
			200	10	20	30
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 512 Date, 11/27/19
Hydrog }
Sdg. Mch. 1/2000 Reel 1/1 Shot }
Turns 99 Cor'n Depth 77 fms.
Sdg. Cup Int. Bot'm Sample
Character of Bottom
Thermom. { Make N.L. Instr. -4
No. 108023 Cor'n { Stem. -2
Bottom Reading 70° Cor'd Temp. 69.4
Temp. Surf. { Time Time { Air {
Baromet. 29.62 Amt. of Clouds 7 State of Sea 8
Weather D.C.
Direction and Force { Surface
of Current. Bottom
Tide
General Locality N.E. of Nantucket
Position 41° 50' N. 70° 10' W. 1/1
Chart used: No. 110 Ed'n
Drift: Direction S 30° E Distance 7
Depth of Haul 7 fathoms
Apparatus and Rig used
Time towing h. 2 m.
Remarks: Stop carried away

SOUNDING WIRE.

M. DOWN. | UP. M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. M.

200	200	300
400	300	400
600	300	500
700	300	600
800	300	700
900	300	800
1000	300	900
1100	300	1000
1200	300	1100
1300	300	1200
1400	300	1300
1500	300	1400
1600	300	1500
1700	300	1600
1800	300	1700
1900	300	1800
2000	300	1900
2100	300	2000
2200	300	2100
2300	300	2200
2400	300	2300
2500	300	2400
2600	300	2500
2700	300	2600
2800	300	2700
2900	300	2800
3000	300	2900
3100	300	3000
3200	300	3100
3300	300	3200
3400	300	3300
3500	300	3400
3600	300	3500
3700	300	3600
3800	300	3700
3900	300	3800
4000	300	3900
4100	300	4000
4200	300	4100
4300	300	4200
4400	300	4300
4500	300	4400
4600	300	4500
4700	300	4600
4800	300	4700
4900	300	4800

SOUNDING WIRE.

M. DOWN, | UP, | M.

FMS.

DREDGING CABLE.

M. DOWN, | UP, | M.

7	14	15	7	22	22
7	15	16	7	23	23
7	16	17	7	24	24
7	17	18	7	25	25
7	18	19	7	26	26
7	19	20	7	27	27
7	20	21	7	28	28
7	21	22	7	29	29
7	22	23	7	30	30
7	23	24	7	31	31
7	24	25	7	32	32
7	25	26	7	33	33
7	26	27	7	34	34
7	27	28	7	35	35
7	28	29	7	36	36
7	29	30	7	37	37
7	30	31	7	38	38
7	31	32	7	39	39
7	32	33	7	40	40
7	33	34	7	41	41
7	34	35	7	42	42
7	35	36	7	43	43
7	36	37	7	44	44
7	37	38	7	45	45
7	38	39	7	46	46
7	39	40	7	47	47
7	40	41	7	48	48
7	41	42	7	49	49
7	42	43	7	50	50
7	43	44	7	51	51
7	44	45	7	52	52
7	45	46	7	53	53
7	46	47	7	54	54
7	47	48	7	55	55
7	48	49	7	56	56
7	49	50	7	57	57
7	50	51	7	58	58
7	51	52	7	59	59
7	52	53	7	60	60
7	53	54	7	61	61
7	54	55	7	62	62
7	55	56	7	63	63
7	56	57	7	64	64
7	57	58	7	65	65
7	58	59	7	66	66
7	59	60	7	67	67
7	60	61	7	68	68
7	61	62	7	69	69
7	62	63	7	70	70
7	63	64	7	71	71
7	64	65	7	72	72
7	65	66	7	73	73
7	66	67	7	74	74
7	67	68	7	75	75
7	68	69	7	76	76
7	69	70	7	77	77
7	70	71	7	78	78
7	71	72	7	79	79
7	72	73	7	80	80
7	73	74	7	81	81
7	74	75	7	82	82
7	75	76	7	83	83
7	76	77	7	84	84
7	77	78	7	85	85
7	78	79	7	86	86
7	79	80	7	87	87
7	80	81	7	88	88
7	81	82	7	89	89
7	82	83	7	90	90
7	83	84	7	91	91
7	84	85	7	92	92
7	85	86	7	93	93
7	86	87	7	94	94
7	87	88	7	95	95
7	88	89	7	96	96
7	89	90	7	97	97
7	90	91	7	98	98
7	91	92	7	99	99
7	92	93	7	100	100

Okp.

Dredge } No. 472 Date, Feb 1, 1911
Hydro } 1911

Sdg. Mch. Success Reel Linear Shot } 85 lbs.
Lead }

Turns 138 Cor'n. None Depth 128 fms.

Sdg. Cup 1000 Amt. Bot'm Sample 1

Character of Bottom Limestone

Thermom. { Make Therm Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { 75° Time 11.12 } Air { 40°
72° Time 11.25 } 81°

Density: Surf. 1.02426 fms.

Wind: Direction N.N. E Force 2

Baromet. Amt. of Clouds 3 State of Sea 2

Weather Sca

Direction and Force of Current { Surface
Bottom

Tide At 11.12 N 32° 1/2. Time

General Locality Sulu Sea

Position 4° 28' 00" N 119-19'-30" E

Chart used: No. 4722 Ed'n

Drift: Direction S. 27 E. Distance 5

Depth of Haul bottom

Apparatus and Rig used N.R.

Time towing h. m.

Remarks: 1000 fms. 10' 12' and

10' 12' 10' 12' 10' 12' 10' 12' 10' 12'

Deck Officer J. A. Recorder J. A. 11-19-11

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
Q M.	Down.	Up.	Q M.		Q M.	Down.	Up.	Q M.
11	03	45	11	08	25	0	11	11
11	05	00	11	07	20	100	11	14
11	05	40	11	07	00	128 ¹⁵⁰	11	16
				200			11	18
					300			30
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
					1400			
					1500			
					1600			
					1700			
					1800			
					1900			
					2000			
					2100			
					2200			
					2300			
					2400			
					2500			
					2600			
					2700			
					2800			
					2900			
					3000			
					3100			
					3200			
					3300			
					3400			
					3500			
					3600			
					3700			
					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

Dredge No. 5713 Date, Feb. 11, 1867, 1922
 Hydrog. Sdg. Mch. Lucas Reel Lucas Shot
 Sdg. Cup Leg. Amt. Bot'm Sample
 Character of Bottom f. m. s. m. s. f. m. s.
 Thermom. Make See the Instr. -4 3
 No. No. Cor'n Stem. -4 4
 77 fms. Bottom Reading 54° Cor'd Temp. 53.3
 Temp. Surf. 82° Time 10.15' Air 84°
 Time 10.30' 55°
 Density: Surf. 1.02447 ✓ 277 fms. 1.02496
 Wind: Direction ENE Force 2
 Baromet. 29.71 Amt. of Clouds 8 State of Sea
 Weather be

Tide - 2000 feet - 1000 feet - HB 1794

General Locality

Wanda 2d. (E) N 18° W 20. sec. 3d. S. 9 sec. W.

Position $6^{\circ} 03' 15'' N$ $120^{\circ} 35' 30'' E$

Chart used: No. C.S. 4722 Ed'n

Drift: Direction N. 47° W. Distance 1.7 mi.

Depth of Haul

Apparatus and Rig used
2 trimming weights, black weights
and 1000 m.

Remarks: Tried sounding with Tamm
mech. & stopped at 277 fath. (bottom)
Heat gauge 100.3. 71.3. Temperature
with gauge 54°. 54°
... Well with the same gauge

Dear Bro. & all right,
in on outside of bag.

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q M. DOWN.	UP.	Q M.		Q M. DOWN.	UP.	Q M.
10 02 00	10 02 10		0	10 14 00	11	
10 04 00	10 08 30		100	10 20 00		
10 05 00	10 07 05		200	10 22 05		
10 06 00	10 07 10		300	10 24 05		
10 06 08	10 06 55	318	400	10 25 10		
			500	10 30 00	10 10 00	
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
50			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

5172

O 5 i

Dredge } No. 72 Date, July 19, 1903
 Hydrog. }
 Sdg. Mch. 1000 ft. Reel 1000 ft. Shot } 10 lbs.
 Turns 20 Cor'n 200 fms.
 Sdg. Cup Diving Amt. Bot'm Sample 20 (0.2 cu ft)
 Character of Bottom Cl. and
 Thermom. { Make Cor'n { Instr.
 No. Stem.
 Bottom Reading Cor'd Temp.
 Temp. Surf. { 62 Time 152.5 } Air 100
 Time
 Density: Surf. fms.
 Wind: Direction N.E. Force 2
 Baromet. 29.62 Amt. of Clouds 5 State of Sea 3
 Weather
 Direction and Force of Current. { Surface
 Bottom
 Tide Jolo St. E, 2.6 mi.
 General Locality Sulu Is.
 Position 03° 45' N - 120° 37' E
 Chart used: No. 4542 E.S. Ed'n
 Drift: Direction N 58° E. Distance 4
 Depth of Haul bottom
 Apparatus and Rig used 1000 ft. Reel 1000 ft.
 Tideline 1000 ft. 200 ft. 100 ft.
 Time towing 6 h. 6 m.
 Remarks:

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. DOWN.	UP.	M.	M.	M.
25	30	0	1	3
50	55	50	5	55
75	80	100	10	10
100			200	
			300	
			400	
			500	
			600	
			700	
			800	
			900	
			1000	
			1100	
			1200	
			1300	
			1400	
			1500	
			1600	
			1700	
			1800	
			1900	
			2000	
			2100	
			2200	
			2300	
			2400	
			2500	
			2600	
			2700	
			2800	
			2900	
			3000	
			3100	
			3200	
			3300	
			3400	
			3500	
			3600	
			3700	
			3800	
			3900	
			4000	
			4100	
			4200	
			4300	
			4400	
			4500	
			4600	
			4700	
			4800	
			4900	

Dredge } No. 377 Date, 7/1/19
Hypnos } 19

Sdg. Mch. 2 Reel Shot } lbs.
Turns 12 Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make 7 Cor'n { Instr.
No. 12 Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 79° Time 702 } Air { 80°
78° Time 80°

Density: Surf. fms.

Wind: Direction E. N. E. Force 3

Baromet. 29.13 Amt. of Clouds 6 State of Sea 28

Weather

Direction and Force of Current { Surface
of Current Bottom

Tide

7 miles

General Locality

Position

Chart used: No. CS 4240 Ed'n

Drift: Direction 37° S. Distance 1 mile

Depth of Haul Surface

Apparatus and Rig used 10

Time towing h. 21 1/2 m.

Remarks:

Deck Officer Recorder 11-1023

SOUNDING WIRE.

M. DOWN. | UP. M.

FMS.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

M. DOWN. | UP. M.

P

7 1 4 0 0 7 2 1 3 0

Dredge } No. Date, , 19

Hyp. } Reel } Tires Shot } 20 lbs.

Sdg. Mech. Tires Reel Tires Shot } 20 lbs.

Turns Cor'n Depth 78 fms.

Sdg. Cup Yellow metal cup Amt. Bot'm Sample 6oz about

Character of Bottom

Thermom. { Make N.L. Cor'n { Instr.

{ No. 108023 Cor'n { Stem.

Bottom Reading 2 (2) Cor'd. Temp.

Temp. Surf. { 80 Time 8:15 a.

80° Time 9:15

Density: Surf. 1.02573 fms. 1.02573

Wind: Direction Force

Baromet. 29.88 Amt. of Clouds 5 State of Sea S

Weather 61/

Direction and Force { Surface

of Current. { Bottom

Tide

Pt Orizm S 3° E - 2.3 mi.

General Locality

East of Tern Is S 45° E. Pt N of Is. 122° S 41° W.

Position 12° 43' - 00N 122° 06' - 15" E

Chart used: No. C.S. 4714 Ed'n

Drift: Direction N 84° W Distance 2.

Depth of Haul 78

Apparatus and Rig used

1 claw

Time towing h. 2.5 m.

Remarks: Tires not full

Deck Officer Recorder

SOUNDING WIRE.

FMS.

M. DOWN.	UP.	M.
8 33 20 8 36 20		
84 30 8 35 30		

78

0

DREDGING CABLE.

M. DOWN.	UP.	M.
8 44 30		18 10
48 50		14 20

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge No. 5180 Date, 26 July 1900

Sdg. Mch. Reel Shot} Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make SW Cor'n { Instr.
No. 10 Stem.

Bottom Reading 50 Cor'd Temp.

Temp. Surf. { 55° Time 7:25 A. M. Air 70°
80° Time 7:50 A. M. 70°

Density: Surf. 1.02530 fms.

Wind: Direction N.E. Force 2

Baromet. 29.74 Amt. of Clouds 4 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

N.E. 30° E. 7.6 m.

General Locality

From 6° 12' S. to 7° 10' S. Lat. 120° 30' E.

Position 12° 15' S. 120° 30' E. (7.6 m.)

Chart used: No. 4. 1/2 Edn

Drift: Direction S. S. E. Distance

Depth of Haul 5 m.

Apparatus and Rig used 10' Trawl

Surface net, 6 in. mesh, 12 ft.

12 ft. deep, direction N.E.

Time towing 2 h. 20 m.

Remarks:

Deck Officer, T. R. Glassie, Recorder F. G. S. 11-1023

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. DOWN.	UP.		M.	M.	UP.
		0	7	32	00
		100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Dredge No. 12 Date, 1921

Sdg. Mch. 12 Reel 7 Shot Leads 2 lbs.

Turns 1 Cor'n 2 Depth 2 fms.

Sdg. Cup 1 Amt. Bot'm Sample

Character of Bottom fine sand

Thermom. { Make 77 Cor'n { Instr. 1
No. 1 Cor'n { Stem.

Bottom Reading 77 Cor'd Temp.

Temp. Surf. { 80° Time 9:43 { Air
80° Time 9:45.5

Density: Surf. 1.02515 fms.

Wind: Direction N.N.E. Force 3-4

Baromet. 30.00 Amt. of Clouds N State of Sea 2

Weather

Direction and Force of Current { Surface
Bottom

Tide

3.7 mi.

General Locality

S 33° 30' E. 100 mi. N. 10°

Position 11° 30' S. 103° 25' E.

Chart used: No. C. 3. 4419 Ed'n

Drift: Direction 33° 30' E. Distance 7

Depth of Haul 10 fms.

Apparatus and Rig used 9' Alb. harpoon with

Time towing 1 h. 5 m.

Remarks:

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
			0	0	44	0
			100	2	20	0
			200	2	20	0
			300	3	20	9
			400		20	0
			500			0
			600			0
			700			0
			800			0
			900			0
			1000			0
			1100			0
			1200			0
			1300			0
			1400			0
			1500			0
			1600			0
			1700			0
			1800			0
			1900			0
			2000			0
			2100			0
			2200			0
			2300			0
			2400			0
			2500			0
			2600			0
			2700			0
			2800			0
			2900			0
			3000			0
			3100			0
			3200			0
			3300			0
			3400			0
			3500			0
			3600			0
			3700			0
			3800			0
			3900			0
			4000			0
			4100			0
			4200			0
			4300			0
			4400			0
			4500			0
			4600			0
			4700			0
			4800			0
			4900			0

Dredge } No. 3113 Date, Aug. 19, 19
Hydrog. } Reel Shot } Leads lbs.
Sdg. Mch. } Cor'n Depth } 96 fms.
Sdg. Cup } Amt. Bot'm Sample }
Character of Bottom } soft, green M.
Thermom. } Make N.Y. Instr. -3
No. 108023 Cor'n Stem. -26
Bottom Reading 65 Cor'd Temp. 63.44
Temp. Surf. } Time 19:00 Air }
81° Time 11:15 Air }
Density: Surf. 1.02489 Bottom fms. 1.02551
Wind: Direction E. Force 5
Baromet. 29.76 Amt. of Clouds 4 State of Sea W.
Weather

Direction and Force of Current } Surface
Bottom

Tide

General Locality

Position N 15° 30' E 11° 0'
Chart used: No. 084416 Ed'n.
Drift: Direction S 18° W. Distance 7
Depth of Haul 10 fms.
Apparatus and Rig used 12' Agassiz, 11' K. Hess Line
Time towing h. m.
Remarks: water bottle recovered with

Deck Officer

Recorder

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
10	25	30	0	10	33	11
	10	27	100			27
			200		29	30
			250			25
			300			02
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 1512 Date, 20th, 1908
Hydrog. Sdg. Mech. L. L. L. Reel Lines Shot 35 lbs.

Turns 565 Cor'n — Depth 65 fms.

Sdg. Cup 515 Amt. Bot'm Sample 1 oz.

Character of Bottom Alkaline

Thermom. { Make W. B. Instr. -23
No. 10802 Cor'n { Stem. -76

Bottom Reading 50.5 Cor'd Temp. 49.84

Temp. Surf. { 62° Time 1:20° } Air { 70°
87° Time 2:27° } 72°

Density: Surf. 1.02489 // fms. 1.02505

Wind: Direction NNE Force 1 - 2

Baromet. 29.60 Amt. of Clouds 67 State of Sea 5

Weather Partly cloudy

Direction and Force { Surface
of Current. { Bottom

Tide

— 11.25 m.

General Locality

Lat. 10°18'30"N Long. 122°23'30"E

Position 10°18'30"N - 122°23'30"E

Chart used: No. C. S. 476 Ed'n

Drift: Direction S 52°W Distance 2.0 m.

Depth of Haul Bottom

Apparatus and Rig used 12' chain, 10 kg weight

Bottom

Time towing — h. — m.

Remarks: Wrecked and broken
was unable to pick up

Deck Officer W. C. L. Recorder C. L. 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. DOWN.	UP.	M.	M.
0	8 20	7 20	20
100	27 00	25 30	30
200	25 30	25 30	30
300	21 00	21 00	00
400	32 20	38 25	25
500	35 20	39 50	50
600	38 15	31 10	10
700	41 10	27 55	55
800	44 10	24 10	10
900	47 20	20 40	40
1000	50 00	17 10	10
1100	53 10	13 10	10
1200			
1300			
1400			
1500			
1600			
1700			
1800			
1900			
2000			
2100			
2200			
2300			
2400			
2500			
2600			
2700			
2800			
2900			
3000			
3100			
3200			
3300			
3400			
3500			
3600			
3700			
3800			
3900			
4000			
4100			
4200			
4300			
4400			
4500			
4600			
4700			
4800			
4900			

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. DOWN.	UP.	M.	M.	FMS.	M. DOWN.	UP.	M.	
4	32	20	4	46	30	4	50	30
4	33	40	4	45	40	4	54	00
4	34	40	4	44	00	4	58	10
4	35	7	4	44	0	4	61	
4	3					4	65	
4	3					4	70	
4	3					4	75	
4	6					4	80	
						4	85	
						4	90	
						4	95	
						4	100	
						4	105	
						4	110	
						4	1200	
						4	1300	
						4	1400	
						4	1500	
						4	1600	
						4	1700	
						4	1800	
						4	1900	
						4	2000	
						4	2100	
						4	2200	
						4	2300	
						4	2400	
						4	2500	
						4	2600	
						4	2700	
						4	2800	
						4	2900	
						4	3000	
						4	3100	
						4	3200	
						4	3300	
						4	3400	
						4	3500	
						4	3600	
						4	3700	
						4	3800	
						4	3900	
						4	4000	
						4	4100	
						4	4200	
						4	4300	
						4	4400	
						4	4500	
						4	4600	
						4	4700	
						4	4800	
						4	4900	

Dredge } No. 1 Date, 19
Hydrog. }
Sdg. Mch. Reel Shot
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom
Thermom. { Make Cor'n { Instr.
No. Cor'n Stem.
Bottom Reading Cor'd Temp.
Temp. Surf. { 80° Time 56.05 } Air { 81°
80° Time 8.24 }
Density: Surf. 1.02530 fms.
Wind: Direction Variable Force 1
Baromet. 29.72 Amt. of Clouds 9 State of Sea
Weather fair
Direction and Force { Surface
of Current. Bottom
Tide S. S. S. N. 20° E. 39 mi.
General Locality No bearings taken
Position 122
Chart used: No. 4718 Ed'n
Drift: Direction 84° W Distance 11
Depth of Haul
Apparatus and Rig used 10' inter.
Time towing — h. 20 m.
Remarks:
Deck Officer 7/15/11 Recorder 11-1023

SOUNDING WIRE.

M. DOWN. | UP. | M.

DREDGING CABLE.

P M. DOWN. | UP. P M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 1 Date, 1911
 Hydrog. }
 Sdg. Mch. T. W. L. Reel 100' Shot 5 lbs.
 Turns 2 Cor'n Depth 20 fms.
 Sdg. Cup Amt. Bar'm Sample
 Character of Bottom
 Thermom. { Make 75 Instr. - 25
 No. 108023 Cor'n { Stem, 4
 Bottom Reading Cor'd. Temp. 53.55
 Temp. Surf. { 81° Time 1/3 p.m. } Air { 87°
 Time
 Density: Surf. 1.024 fms. 1.023
 Wind: Direction Force
 Baromet. 29.97 Amt. of Clouds State of Sea
 Weather Fe

Direction and Force of Current. { Surface
Bottom
 Tide ~~Non-spring~~ ft. N $52^{\circ} W.$ - 3.5 m.
 General Locality
 No bearings taken.
 Position $9^{\circ} 15' S. 177^{\circ} 15' E.$
 Chart used: No. C 51 1/4 Ed'n (S 7907).
 Drift: Direction $11^{\circ} 30' S.$ Distance 10 miles.
 Depth of Haul Bottom.
 Apparatus and Rig used $9^{\circ} 15' S. 177^{\circ} 15' E.$
 1 trawl

Deck Officer *[Signature]* Recorder *[Signature]* 11-1023

SOUNDING WIRE.		FMS.	DREDGING CABLE.	
M. DOWN.	UP.		M.	M.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 14718 Date, Oct 11, 1900
Hydrog. }
Sdg. Mch. 1000 lbs. Reel 100' Shot } 10 lbs.
Turns 10 Cor'n 100' Depth 100' fms.
Sdg. Cup Sig. 100' Amt. Bot'm Sample 100' fms.
Character of Bottom fine sand
Thermom. { Make 72 Cor'n { Instr. 72
No. 100 Stem. 72
Bottom Reading Cor'd. Temp. 62.6
Temp. Surf. { 81° Time 10.30 Air { 82.5
100° Time 10.30
Density: Surf. 1.02475 Bottom fms. 1.02502
Wind: Direction N. Force 3
Baromet. 29.75 Amt. of Clouds 1 State of Sea
Weather be
Direction and Force of Current. { Surface
Bottom
Tide P. 10.16 E 14 m.

General Locality 70° 10' S. 160° 10' W.

Position 70° 9' S. 160° 14' W.

Chart used: No. 4718 Ed'n

Drift: Direction N. 10' W. Distance 6 m.

Depth of Haul bottom

Apparatus and Rig used 100

5 glass floats, 1 chain

Time towing h. m.

Remarks:

Deck Officer J. C. M. Recorder F. J. D.

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
2 M.	Down.	Up.	2 M.		2 M.	Down.	Up.	2 M.
10	17	30	10	23	45	0	10	29
	/	/				100	/	20
10	17	35	10	22	20	200	10	36
	/	/				300	/	/
						400	10	44
						500	10	104
						600		
						700		
						800		
						900		
						1000		
						1100		
						1200		
						1300		
						1400		
						1500		
						1600		
						1700		
						1800		
						1900		
						2000		
						2100		
						2200		
						2300		
						2400		
						2500		
						2600		
						2700		
						2800		
						2900		
						3000		
						3100		
						3200		
						3300		
						3400		
						3500		
						3600		
						3700		
						3800		
						3900		
						4000		
						4100		
						4200		
						4300		
						4400		
						4500		
						4600		
						4700		
						4800		
						4900		

Dredge } No. 517 Date, 10.1.19
 Hydrog. }
 Sdg. Mch. 1 Reel Shot } lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup Int. Bot'm Sample 2 1/2
 Character of Bottom
 Thermom. Make 71.5 Instr. -3.0
 Thermom. No. Cor'n Stem. -27
 Bottom Reading Cor'd Temp. 60.3
 Temp. Surf. 82 Time 11:18 P Air 85°
 Temp. Surf. 82 Time 2:11 P Air 84
 Density: Surf. 1.024.68 Bottom fms. 1.024.95
 Wind: Direction N.W. Force 3
 Baromet. 29.73 Amt. of Clouds 2 State of Sea
 Weather 1/2 C

Direction and Force of Current. Surface
 of Current. Bottom

Tide 3.3 mi.
 General Locality
 Position 45° N - 133° 15' E
 Chart used: No. 4718 C. 8 Ed'n
 Drift: Direction 270° E Distance 1.0 mi.
 Depth of Haul 10 fms.
 Apparatus and Rig used

Time towing 20 m.

Remarks:

Deck Officer 1st Engg. Recorder 1
 11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. DOWN.	UP.	M.	M.		M. DOWN.	UP.	M.	
04	30	1	11	20	0	1	15	-
05	40		10	20	100	19	50	09 25
06	35		09	30	200	23	30	04 50
7	10			300		27	20	
				400		30	40	55 30
				500		32	40	52 40
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 515 Date 10. 8. 1910
Hydrog. }
Sdg. Mch. 1000 lbs. Reel 1000 lbs. Shot 100 lbs.
Turns 245 Cor'n Depth 20 fms.
Sdg. Cup 515 Amt. Bot'm Sample 100 lbs.
Character of Bottom 200 lbs.
Thermom. { Make NB Instr. - 3
No. 108023 Cor'n { Stem. - 26
Bottom Reading 63.5° Cor'd Temp. 62.94°
Temp. Surf. { 83° Time 4:26 P.M. Air 72.5°
83° Time 5:06 P.M. Air 70°
Density: Surf. 1.0246 fms. 102.48°
Wind: Direction NOrth Force 2
Baromet. 29.66 Amt. of Clouds 2 State of Sea
Weather 1/2

Direction and Force { Surface
of Current. Bottom

Tide

10.7 m.

General Locality

Pescador Id. S 90° E Lon 145° 25' E

Position 10° 08' 45" S 122° 16' 30" E

Chart used: No. CS 4718 Ed'n -

Drift: Direction N 45° E Distance 100 m.

Depth of Haul bet 240 and 270 fms.

Apparatus and Rig used 10' 200 lbs. 100 lbs.

Time towing - h. 2 m.

Remarks: 1/2 h. drift and 100 lbs.

Deck Officer 2nd Officer Recorder 100 lbs. 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
13 00	13 00		0	13 00	13 00	
14 00	14 20		100	14 30	14 20	
15 00	17 00		200	17 00	16 00	
15 00	17 20		300	17 20	16 00	
			400	17 39	17 00	
			500	17 39	17 00	
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 158 Date, April 19, 1883
Hydrog. Sdg. Mech. Reel Shot Lead lbs.
Turns 458 Cor'n Depth 258 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom 0
Thermom. { Make 71° Cor'n { Instr. 30
No. 108023 Stem. 27
Bottom Reading 62.4 Cor'd Temp. 63.8
Temp. Surf. { 83 Time 2.2 } Air { 91 1/2
Time
Density: Surf. 1.02497 Bottom fms. 1.02516
Wind: Direction N. N. E. Force 1
Baromet. 29.51 Amt. of Clouds 7 State of Sea
Weather
Tide 7.75 mi

Direction and Force of Current { Surface
Bottom

General Locality (S) N. N. E. 12 mi
Position 29° 45' N. 120° 10' W.
Chart used: No. 84718 Ed'n
Drift: Direction 88° W. Distance 0.9
Depth of Haul bottom
Apparatus and Rig used
Towing
Time towing h. 20 m.
Remarks:

Deck Officer 71 Recorder 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
Z	M. Down.	Up.	M.	Z	M. Down.	Up.	M.
2	0	0	0	3	10	50	4
2	100	200	100	3	—	—	3
2	300	200	200	3	16	08	3
2	500	100	300	3	—	—	3
			400	3	25	40	3
			500				
			600				
			700				
			800				
			900				
			1000				
			1100				
			1200				
			1300				
			1400				
			1500				
			1600				
			1700				
			1800				
			1900				
			2000				
			2100				
			2200				
			2300				
			2400				
			2500				
			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800				
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

Dredge } No. 5192 Date, April 27, 1908
Hydrog.

Sdg. Mch. Reel Shot } Lead lbs.

Turns 32 Cor'n Depth 82 fms.

Sdg. Cup Amt. Bot'm Sample C. fms.

Character of Bottom. Cor'd.

Thermom. { Make N. Cor'n { Instr.
No. 22 Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { 82 Time 9:00 A. M. Air { 8
32 Time 10:00

Density: Surf. 1.02518 fms.

Wind: Direction N. E. Force 4

Baromet. 29.80 Amt. of Clouds 6 State of Sea 8

Weather

Direction and Force of Current. { Surface
Bottom

Tide

3 mi.

General Locality

Off Cape Hatteras N. W.

Position 41° 45' N. 71° 15' W.

Chart used: No. C.S. 4718 Ed'n 1

Drift: Direction N. W. Distance 10 mi.

Depth of Haul Bottom

Apparatus and Rig used

Time towing 2 h, 8 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
7	720		0	88	30	9
			100	4	40	9
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 510 Date, 6/19
Hydrog. }
Sdg. Mch. Janus Reel SN Shot } 30 lbs.
Turns 71 Cor'n Depth 71 fms.
Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Instr.
No. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 72° Time 11:10 A.M. } Air { 71°
Time

Density: Surf. 1.02503 fms.

Wind: Direction N E Force 2

Baromet. 29.77 Amt. of Clouds 3 State of Sea S

Weather F.

Direction and Force of Current { Surface
Bottom

Tide 1/2 ebb N 71° E. 4.4 ft.

General Locality

Lat. 40° 45' N Long. 120° 30' E

Position 40° 45' N - 120° 30' E

Chart used: No. CS 4718 Ed'n 1

Drift: Direction N 44° W Distance 1.3

Depth of Haul bottom

Apparatus and Rig used 12

Time towing 2 h. 20 m.

Remarks:

Deck Officer / Recorder /

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. DOWN.	UP.	M.	M.		M. DOWN.	UP.	M.	M.
11	02	10	11	0510	0	11	00	11
11	02	40	11	03	10	10	20	33
				71	100	11	11	40
					200			
					300			
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
					1400			
					1500			
					1600			
					1700			
					1800			
					1900			
					2000			
					2100			
					2200			
					2300			
					2400			
					2500			
					2600			
					2700			
					2800			
					2900			
					3000			
					3100			
					3200			
					3300			
					3400			
					3500			
					3600			
					3700			
					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

Dredge No. 148 Date, 19, 19
Hydrog. Sdg. Mech. Reel Shot Lead lbs.
Turns 148 Cor'n Depth 148 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom
Thermom. { Make 713 Instr. -25
No. Cor'n Stem. -37
Bottom Reading 57.1° Cor'd Temp. 56.5°
Temp. Surf. { 83° Time 2:00 Air
Time 2:15
Density: Surf. 1.02447 Bottom fms. 1.02597
Wind: Direction NW by W Force 2
Baromet. 29.88 Amt. of Clouds State of Sea
Weather V.C.

Direction and Force of Current { Surface
Bottom

Tide 1/2 in. S. N. E. W. 7.5 m.

General Locality

Off the S. E. Point of

Position 33° 20' S. 151° 10' E.

Chart used: No. 547 Ed'm

Drift: Direction S. E. Distance 5.1

Depth of Haul Bottom

Apparatus and Rig used

Chain

Time towing 2 h. 25 m.

Remarks

Deck Officer

Recorder

SOUNDING WIRE		FMS.	DREDGING CABLE		
M. DOWN.	UP.		M.	UP.	M.
		0		23	2
		100		27	0
		200		11	00
		300		11	40
		400	21	15	00
		500		2	35
		600			10
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Dredge } No. 31957 Date, October 3, 1908
Hydrog. }

Sdg. Mch. Reel Shot } Lead lbs.

Turns 2 Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Instr. Cor'n { Stem.

Bottom Reading Cor'd. Temp.

Temp. Surf. { Time { Air } ° F. Time ° C.

Density: Surf. 1.025 fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force { Surface Cor'n { Stem.

Tide (Ooh. 55) 1/4 N 11.75

General Locality

Position 10° 47' S. 124° 05' E.

Chart used: No. 4728 Ed'n

Drift: Direction 330° E. Distance 1.5

Depth of Haul Surface

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

11.30 a.m.

SOUNDING WIRE.

M. Down. | UP. M.

FMS.

DREDGING CABLE.

P M. Down. | UP. P M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 5196 Date, 19

Sdg. Mech. Reel Shot } Lead lbs.

Turns 20 Cor'n Depth fms.

Sdg. Cup D Amt. Bot'm Sample

Character of Bottom sand

Thermom. { Make ✓ Cor'n { Instr. ✓ Stem.

Bottom Reading Cor'd Temp. fms.

Temp. Surf. { 54° Time 7.42 } Air 11
82° Time 8.10.2

Density: Surf. 1.02578 fms.

Wind: Direction variable Force 0-1

Baromet. 29.76 Amt. of Clouds 2 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

Chin. 14.1 N 52° 14' 143

General Locality

Position 10° 44' 34" 124° 00' 37"

Chart used: No. Ed'n

Drift: Direction 0 Distance

Depth of Haul Surface

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder 11-1023

SOUNDING WIRE.

M. DOWN. | UP. | M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

M. DOWN. | UP. | M.

7 | 42 | 50

8 | 02 | 30

Dredge } No. 3 7 Date, April 9, 1901
 Hydro }
 Sdg. Mch. Reel Lb. Shot Head lbs.
 Turns Cor'n Depth 174 fms.
 Sdg. Cup 1000 Amt. Bot'm Sample
 Character of Bottom 9.46-22.5 Cor'n
 Thermom. { Make T. C. Instr. -25
 { No. 108028 Cor'n { Stem. -4
 Bottom Reading 55 Cor'd Temp. 54.3
 Temp. Surf. { 81 Time 8:43 A. M. } Air { 91
 { 81 Time 9:27 A. M. }
 Density: Surf. 1.02489 Fathm. fms. 102513
 Wind: Direction N.W. Force 6-1
 Baromet. 30.15 Amt. of Clouds 2 State of Sea
 Weather 1000

Direction and Force of Current { Surface
 of Current. { Bottom

Tide

General Locality

Position 152-30N-123-40W

Chart used: No. 6041 Ed'n

Drift: Direction 77-58-00 Distance 1.5

Depth of Haul 1000

Apparatus and Rig used 12' 1000 1000

5' 1000 1000 1000

1' 1000 1000 1000

Time towing 7h. 00 m.

Remarks:

Deck Officer W. W. WOODWARD

Recorder

V. C. 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
8			0	8		7 25
22	23	23	100			27
34	25	25	200	52		16
			300	8	55	9 15
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge No. 5 Date, Aug. 19
 Hydrog. Sdg. Mch. Lead Reel Shot Lead lbs.
 Turns Cor'n Depth 220 fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom
 Thermom. { Make Instr. 725
 { No. 108028 Stem. 740
 Bottom Reading Cor'd Temp. 53.9
 Temp. Surf. { 81° Time 1112 Q. } Air 84°
 { Time
 Density: Surf. 1.02434 fms. 1.02500
 Wind: Direction N Force 2
 Baromet. 30.12 Amt. of Clouds 8 State of Sea
 Weather be.
 Direction and Force { Surface
 of Current. Bottom
 Tide 10.25 m.

General Locality
 Long. 171° 10' E. Lat. 10° 15' S.
 Position 9° 11' S. 123° 31' E.
 Chart used: No. CS 4718 Ed'n 1
 Drift: Direction S 54° W Distance 1.1
 Depth of Haul bottom
 Apparatus and Rig used 12
 Time towing 1h. 22 m.
 Remarks:

SOUNDING WIRE			FMS.	DREDGING CABLE		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
			0			
			100	15 30	50	
420	06 10		200	19 00	50 30	
			300	2	60 00	
			400	11 25 00	45 00	
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5199 Date, 1909
Hydrog. }
Sdg. Mch. Reel Shot } Leads lbs.
Turns Cor'n Depth fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom
Thermom. { Make 5 Cor'n Instr.
No. Stem
Bottom Reading Cor'd Temp.
Temp. Surf. { 79° Time 7:38 A.M. Air 79°
79° Time 7:57 A.M. 83°
Density: Surf. 1023.30 fms.
Wind: Direction NNE Force 2
Baromet. 29.69 Amt. of Clouds 0 State of Sea S
Weather
Direction and Force of Current { Surface
Bottom
Tide
Position 9°31'50" N - 124°30'45" E.
Chart used: No. CS 4719 Ed'n 7
Drift: Direction East Distance 0.6 m.
Depth of Haul 5 m.
Apparatus and Rig used 10' Inter. as 6' 1/2
20' Sinker.
Time towing h. 26 m.
Remarks:

Deck Officer 2nd. Lt. T. Recorder F. J. G. 11-1023

SOUNDING WIRE.

M. DOWN. | UP. M.

FMS.

DREDGING CABLE.

M. DOWN. UP. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 5.250 Date, Aug. 19, 1905
Hydrog. }

Sdg. Mch. Reel Shot Leads lbs.

Turns 20 Cor'n Depth fms.

Sdg. Cup S Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Cor'n { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. 71° Time 7:18 } Air 82°
Time } 2

Density: Surf. 1.02468 fms.

Wind: Direction N.E. Force 2

Baromet. 30.025 Amt. of Clouds 0 State of Sea 2

Weather 2

Direction and Force of Current { Surface
Bottom

Tide. 1 m. 0.66 7.25 m.

General Locality

Position Lat 3° 21' S. Long 124° 05' E.

Chart used: No. C.S. 4719 Ed'n.

Drift: Direction 20 Distance 0

Depth of Haul 20 fms.

Apparatus and Rig used 20 fms.

20 fms.

Time towing h. 15 m.

Remarks:

Deck Officer Mr. J. C. W. Recorder J. C. W. 11-1023

SOUNDING WIRE.

M. DOWN. | UP. M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. M.

0	8	0	200	7	25	40
100						
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

Dredge No. 16 Date, 1911, 1911

Hydrog. Lucas Reel 10 fms. Shot} 3.0 lbs.

Turns 554 Cor'n Depth 55 fms. fms.

Dredg. Cup 10 fms. Amt. Bot'm Sample

Character of Bottom gy. M.

Thermom. { Make N. 2 Instr. = 25
No. 108023 Stem. = 36

Bottom Reading Cor'd Temp. 52.8°

Temp. Surf. { 77° Time 8:30
80° Time 9:45 } Air { 85°
83°

Density: Surf. 1.02440 fms. 1.02897

Wind: Direction N. N. E. Force 1

Baromet. 30.02 Amt. of Clouds 8 to 10 State of Sea 28

Weather sea to wind open

Direction and Force of Current { Surface
Bottom

Tide → 14.8 mi.

General Locality 30 miles S. 3° W.

Latitude 10° 45' S. Longitude 120° 15' E.

Position Lat 10° 15' S. Long 120° 15' E.

Chart used: No. 4719 Ed'n 1

Drift: Direction S. 24° W. Distance 1.5

Depth of Haul 10 fms.

Apparatus and Rig used 10 fms. 10 fms.

10 fms. 10 fms. 10 fms. 10 fms.

10 fms. 10 fms. 10 fms. 10 fms.

Time towing 20 m.

Remarks: 10 fms. 10 fms.

Plankton counted from 900 fms.

Deck Officer, Lt. C. S. L. Recorder, J. J. 11-1023

SOUNDING WIRE.

M. DOWN.	UP.	M.
8	17	8 2
8	19	8 2
8	20	8 2
8	21	8 27 00
		8 26
		8 26
		8 26
		8 26

FMS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

M. DOWN.	UP.	M.
8 04 100	1	
8	7	
8	8	
8 14 5 20	1	3 2 3 5
8 18 2 100	1	
8	8	
8	8	
9 02 30	1	
9 10 10	1	

Dredge } No. 5 Date, 19

Hydrog. } Sdg. Mch. Reel Shot } lbs.

Turns 502 Cor'n Depth 502 fms.

Sdg. Cup 1000 Amt. Bot'm Sample 1/2

Character of Bottom sand. 11

Thermom. { Make 23 Cor'n { Instr. 1002 Stem.

Bottom Reading 80° Cor'd Temp.

Temp. Surf. { 80° Time 12 45 } Air { 79 1/2
80° Time 14 30

Density: Surf. 1.025 fms. 1.02467

Wind: Direction N. N. W. Force 1

Baromet. 29.74 Amt. of Clouds 10 State of Sea 2

Weather

Direction and Force of Current. { Surface
Bottom

Tide 2d (E) S. 2° E. 16.5 mi.

General Locality 2° 12' S. 126° 47' E.

Latitude 2° 11' S. 126° 46' E.

Position 12° 12' 00" S. 126° 04' 10" E.

Chart used: No. 4719 C. S. Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 12' Agassiz, 1 Calanus

5 glases

Time towing 1 h. 20 m.

Remarks: 1

Deck Officer Recorder 11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M.	Down.	Up.	M.	M.	Up.		M.	Up.	M.	M.	Up.	M.
10	28	40	10	35	10	0	10	41	30	11	35	25
10	26	30	10	34	20	100	10	45	30	11	30	10
0	27	48	10	33	45	200	10	49	10	11	46	40
10	28	40	10	33	10	300	10	52	45	11	13	10
10	29	30	10	32	20	400	10	56	05	11	39	30
10	20	30	10	31	35	500	10	57	30	11	36	20
10	30	38	10	31	35	600	11	03	35	11	32	20
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 5203 Date, Apr 10, 1904
~~Hydro~~
Sdg. Mch. Tues Reel S. S. Shot } 30 lbs.
Turns Cor'n Depth 77 fms.
Sdg. Cup Amt. Bot'm Sample 7
Character of Bottom gr. mud
Thermom. { Make N.L. Instr. -25
No. 23 Cor'n { Stem. -37
Bottom Reading 52.5 Cor'd. Temp. 52.9 °
Temp. Surf. { 80° Time 2:36 P.M. Air { 82°
81° Time 4:00 P.M. Air { 83°
Density: Surf. 1.02468 Bottom fms. 1.0268
Wind: Direction N Force 2
Baromet. Amt. of Clouds State of Sea
Weather cloudy

Direction and Force of Current { Surface
of Current { Bottom

Tide 5.5 m.

General Locality

Limesana Id. (S), S. 38° 17' Tae. 17° 57' E. 152015
Position 9° 18' 00" S. 125° 00' 40" E.

Chart used: No. 15 : 7 Ed'n

Drift: Direction N 72° 18' Distance 2.7

Depth of Haul Bottom

Apparatus and Rig used 15' George R. Richens, 2 wing
manta trawl, 500 ft. line

Time towing — h. 3/ m.

Remarks:

Set trawl and 15' line in
4:00 P.M. — 2 fms. f. 2 min.
which is 600 ft. l.

Deck Officer *W. H. M. M.*
Mr. M. M.

Recorder

Stratton — 1023

FMS.	DREDGING CABLE		
	M. DOWN.	M. UP.	M.
0	235	472	350
100	35	47	45
200	65	50	50
300	24	36	10
400	10	32	22
500	15	24	35
600	7	24	35
700	50	20	45
800	18	16	25
900	20	12	25
1000		07	25
1100		420	15
1200	175	47	45
1300			
1400			
1500	47	27	35
1600			
1700			
1800			
1900			
2000			
2100			
2200			
2300			
2400			
2500			
2600			
2700			
2800			
2900			
3000			
3100			
3200			
3300			
3400			
3500			
3600			
3700			
3800			
3900			
4000			
4100			
4200			
4300			
4400			
4500			
4600			
4700			
4800			
4900			

Dredge } No. 5204 Date, 11 3/21, 1908
Hydrog }
Sdg. Mch. Lead Line Reel Shot } lbs.
Turns Cor'n Depth 1.5 fms.
Sdg. Cup Amt. Bot'm Sample %
Character of Bottom ~~Bottom~~
Thermom. { Make Cor'n { Instr.
No. Stem.
Bottom Reading Cor'd Temp.
Temp. Surf. { 62 Time 95 { Air 55
Time
Density: Surf. 1.02391 fms.
Wind: Direction E Force 1-2
Baromet. 29.76 Amt. of Clouds 1 State of Sea L
Weather Sce to opn

Direction and Force of Current. { Surface
Bottom

Tide 3.5 mi.
General Locality Lat. 11° N. 18° W
Steering Lat. 11° N. 18° W (1)
Position Lat. 11° 4' N. Long. 125° 4' W
Chart used: No. 4423 C. & Ed'n
Drift: Direction N. 57° E Distance 1.2 miles
Depth of Haul Bottom
Apparatus and Rig used 100' 100' 100' 100'
Time towed 5.2 hours
Time towing 1.20 1/2 m.

Remarks:

Deck Officer C. S. Long
C. S. Long
Recorder C. S. Long
1-1908

SOUNDING WIRE.

M. DOWN. | UP. | M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

0	9	36	30	10	10	35
100	9	48	28	10	09	00
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

Dredge } No. 5205 Date, April 13, 1911
Hydrog. }
Sdg. Mch. Dredge Haul Reel 1 Shot } 14 lbs.
Turns Cor'n Depth 8 fms.
Sdg. Cup Amt. Bot'm Sample

Character of Bottom Loose

Thermom. { Make 77 Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading 73 Cor'd Temp. _____
Temp. Surf. { 73 Time 9:30 A.M. } Air { 84
82 Time 9:30 }
Density: Surf. 1.02448 fms. —

Wind: Direction N. W. W. Force 0
Baromet. 29.89 Amt. of Clouds 9 State of Sea S

Weather

Direction and Force of Current { Surface
Bottom

Tide Caguayan Pt. N 2° E., 7 mi.

General Locality

Position 11° 11' S 120° 41' E. 3 fms.

Chart used: No. 4769 Ed'n

Drift: Direction Dredge Distance —

Depth of Haul Bottom

Apparatus and Rig used/

Time towing h. ✓ m.

Remarks:

Deck Officer W. H. D. C. S. Recorder W. H. D. C. S. 11-1023

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. DOWN.	UP.		M.	UP.	M.
		0			
		100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Dredge } No. 5211 Date, Oct 11, 1911
Hydrog. }
Sdg. Mch. Reel 11 IV Shot } 100 lbs.
Turns Cor'n Depth 52 fms.

Sdg. Cup 16' 2" Imt. Bot'm Sample

Character of Bottom

Thermom. { Make 2024 Cor'n { Instr.
No. 1024 Stem.

Bottom Reading 52 Cor'd Temp.

Temp. Surf. { 83° Time 101229 { Air 83°

Density: Surf. 1.02406 fms.

Wind: Direction NW Force 0-1

Baromet. 30.01 Amt. of Clouds State of Sea

Weather Very

Direction and Force { Surface
of Current. Bottom

Tide

< 5.75 mi.

General Locality 11° 40' N. Lat. 124° 47' E. Long.

Position 11° 40' N. Lat. 124° 47' E. Long.

Chart used: No. C.S. 4430 Ed'n -

Drift: Direction N 18° W Distance 7

Depth of Haul

Apparatus and Rig used

Time towing: h. m.

Remarks:

Deck Officer Recorder 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

M. DOWN. | UP. | M.

50	50	0	10	10	0
		100	10	10	0
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Dredge No. 120 Date, 14, 1929
Hydro. Reel Sheet Lead 50 lbs.
Sdg. Mch. Cor'n Depth fms.
Turns Cor'n Depth fms.
Sdg. Cup ~~fall out on board~~ Amt. Bot'm Sample 2

Character of Bottom on M. & S.

Thermom. { Make Honey Cor'n { Instr.
No. 1100 Stem.

Bottom Reading Cor'd Temp.
Temp. Surf. { 84° Time 1:30 A } Air { 86°
84° Time 1:50 P } 8.5

Density: Surf. 1.02395 fms.

Wind: Direction Calm Force 0
Baromet. 29.96 Amt. of Clouds 8 State of Sea

Weather very

Direction and Force { Surface
of Current. Bottom

Tide -4.7 m.

General Locality 14 miles N 18° E of Acadia (N)
3/4 of a mile off mouth of Pleasant River

Position 44° 12' N 67° 12' W

Chart used: No. C 84420 Ed'n -

Drift: Direction N 16° E Distance 5

Depth of Haul bottom

Apparatus and Rig used 12' net, 71'.

Rising net, 12' net, 71'.

Time towing 1.5 h. 15 m.

Remarks:

Deck Officer Mr. Mather Recorder 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

M. DOWN. | UP. | M.

0		
100		
200		
300		
400		
500		
600		
700		
800		
900		
1000		
1100		
1200		
1300		
1400		
1500		
1600		
1700		
1800		
1900		
2000		
2100		
2200		
2300		
2400		
2500		
2600		
2700		
2800		
2900		
3000		
3100		
3200		
3300		
3400		
3500		
3600		
3700		
3800		
3900		
4000		
4100		
4200		
4300		
4400		
4500		
4600		
4700		
4800		
4900		

Dredge No. 5208. Date, 14 Feb., 1907.
Hydrog. Sdg. Mch. 55 Reel 750' Shot Lead 25 lbs.
Turns 26 Cor'n — Depth 26 fms.
Sdg. Cup 5' Sample Amt. Bot'm C. 1/2 lbs. cor. 25 lbs.
Character of Bottom soft sand. *St. Lucia*.
Thermom. { Make } none in use Cor'n { Instr. —
{ No. } — Stem. —
Bottom Reading — Cor'd Temp. —
Temp. Surf. { 94° Time 1:00 a.m. } Air 84°
{ 84° Time 1:20 p.m. } 84°
Density: Surf. 1.02483 fms.
Wind: Direction WSW Force 1-2
Baromet. 29.70 Amt. of Clouds 8 State of Sea 2
Weather —

Direction and Force of Current. { Surface —
Bottom —

Tide —

40 m.

General Locality Near Catbalagan, Samar
Cavantianao I (C), N 10° E - Taratau I (S).
Position 11° 53.33' N - 124° 42' 50" E. C 47

Chart used: No. C.C. 44.51 Ed'n —

Drift: Direction N 27° E. Distance 0.6 m.

Depth of Haul 20 m.

Apparatus and Rig used The Dredge

Time towing — h. 20 m.

Remarks:

Deck Officer Mr. Chapman

Recorder C. C. T.

11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	P. M.		M. DOWN.	UP.	P. M.
12	12	12	0	12	10	12
26	100	50	100	57	1	30
			200	59	1	30
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 5109. Date, 14. 1. 1928
Hydrog. }
Sdg. Mch. 1 Tons. Reel Chank ^{shot} Lead } 25 lbs.
Turns 20. Cor'n — Depth 20 fms.

Sdg. Cup *Plumbeous* Amt. Bot'm *climbing* *yellow* *green*
Character of Bottom *gr. N.*

Thermom. { Make } None used. Cor'n { Instr. —
{ No. } Stem. —

Bottom Reading — Cor'd Temp. —
Temp. Surf. { 84° Time 2:10 P.M. } Air { 81° —
{ 84° Time 2:35 P.M. } 81° —

Density: Surf. 1.02493 fms. —

Wind: Direction SSW Force 3
Baromet. 29.69 Amt. of Clouds 8 State of Sea 3

Weather Fair

Direction and Force { Surface —
of Current. { Bottom —

Tide Taratara Id. (N) S 53°W 1.8 mi.

General Locality Near Cawthron, New Zealand
Cawthron Island (S) 53° 27' S 175° 18' E
Position 110° 18' S 175° 12' E 1/2 8' 08" S. 10.1.28

Chart used: No. C.S. 4051 Ed'n —

Drift: Direction S. 28° E. Distance —

Depth of Haul Bottom

Apparatus and Rig used. The Trawl.

Time towing — h. 20 m.
Remarks: Sod line 200 fms.

Deck Officer *J. H. Newell* Recorder *C. G. J. Newell*
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
M. Down.	UP.	M.		C	M. Down.	UP.	M.
2.03	12	2	03	50	0	2	12
2.22	25	2	02	26	2.100	2	12.50
					200		
					300		
					400		
					500		
					600		
					700		
					800		
					900		
					1000		
					1100		
					1200		
					1300		
					1400		
					1500		
					1600		
					1700		
					1800		
					1900		
					2000		
					2100		
					2200		
					2300		
					2400		
					2500		
					2600		
					2700		
					2800		
					2900		
					3000		
					3100		
					3200		
					3300		
					3400		
					3500		
					3600		
					3700		
					3800		
					3900		
					4000		
					4100		
					4200		
					4300		
					4400		
					4500		
					4600		
					4700		
					4800		
					4900		

Dredge No. 2522 Date, May 15, 1923
Hydrog. No. 2522

Setg. Mch. 1000 Reel 1000 Shot Lead lbs.

Turns 50 Cor'n Depth 40 fms.

Setg. Cup 1000 Amt. Bot'm Sample

Character of Bottom fine sand.

Thermom. Make R Cor'n Instr. -42
No. 1000 Stem -11

Bottom Reading 76.3 Cor'd Temp. 76.3

Temp. Surf. 84° Time 10.20 Air 84°

Density: Surf. 1.02406 fms. 102523

Wind: Direction E Force 1

Baromet. 29.72 Amt. of Clouds 1 State of Sea 2

Weather 20°

Direction and Force of Current Surface
Bottom

Tide 3.6 mi.

General Locality 24° 45' S. 134° 20' E. Drift N. 42° W.

Position 24° 45' 53" S. 134° 20' 05" E.

Chart used: No. 4420 Ed'n

Drift: Direction N 1° W Distance 2

Depth of Haul 1000 "

Apparatus and Rig used 1000

2000

1000

Time towing 11 h. 20 m.

Remarks

1000 2000

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
Q M.	Down.	Up.	Q M.	Q M.	Up.	Q M.
10	17	10	10	18	80	0
12	17	10	15	20	470	100
						200
						300
						400
						500
						600
						700
						800
						900
						1000
						1100
						1200
						1300
						1400
						1500
						1600
						1700
						1800
						1900
						2000
						2100
						2200
						2300
						2400
						2500
						2600
						2700
						2800
						2900
						3000
						3100
						3200
						3300
						3400
						3500
						3600
						3700
						3800
						3900
						4000
						4100
						4200
						4300
						4400
						4500
						4600
						4700
						4800
						4900

Dredge } No. 5311 Date, 11. 17, 1911
 Hydrog. } Sdg. Mech. 1 Reel 1 Shot 0 lbs.
 Sdg. Cup 1 Amt. Bot'm Sample 2
 Character of Bottom 1 91 m. & sea
 Thermom. { Marker 1 Instr. -3
 No. 108023 Cor'n { Stem. -45
 Bottom Reading 57.3 Cor'd Temp. 56.6°
 Temp. Surf. { 84' Time 1.11 P } air
 { 84' Time 1.55 P } water
 Density: Surf. 1.02482 fms. 1.02509
 Wind: Direction N. E. Force 1
 Baromet. 29.72 Amt. of Clouds State of Sea
 Weather 1/10

Direction and Force of Current. $\left\{ \begin{array}{l} \text{Surface} \\ \text{Bottom} \end{array} \right.$
Tide 5.25 mi.
General Locality $\left\{ \begin{array}{l} \text{Off. L. (NE) } \\ \text{N.W. } \end{array} \right.$ $\left\{ \begin{array}{l} \text{N.E. } \\ \text{N.W. } \end{array} \right.$
Position $15^{\circ} 31' 33'' \text{ N} \quad 125^{\circ} 10' 00'' \text{ E}$
Chart used: No. C 84715 Ed'n. 1
Drift: Direction N 25' E Distance 1.7
Depth of Haul 10 fms
Apparatus and Rig used 100 ft. 100 wt.

Remarks.

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M.	DOWN.	UP.	M.		M.	DOWN.	UP.	M.
				0				
				100				
	04 00	06 10		155	15 30	45 10		
	04 40	05 40		200	20 00	40 00		
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge No. 1 Date, 20. 5. 1901

Hydrog. Sdg. Mch. T. C. L. Reel L. S. Shot L. 35 lbs.

Turns 108 Cor'n Depth 108 fms.

Sdg. Cup L. S. Amt. Bot'm Sample 4 oz.

Character of Bottom 97. S. V.

Thermom. Make V. No. 108023 Cor'n Instr. - .3
Cor'n Stem. - .34

Bottom Reading 10.5 Cor'd Temp. 59.9

Temp. Surf. 80° Time 8:37 a.m. Air 82°
80° Time 9:00 a.m. 83°

Density: Surf. 1.02467 fms. 1.02476

Wind: Direction Calm Force 0

Baromet. 29.80 Amt. of Clouds 2. State of Sea S.

Weather

Direction and Force of Current. Surface
Bottom

Tide 12.9 mi.

General Locality Bet. Nasca and Camar.

Despacito I. W. N. 32° - Padre Island I. N. 33°

Position 12° 04' W. 97° 12' 04' S.

Chart used: No. C.S. 4715 Ed'n -

Drift: Direction N. 21° 7' V. Distance 0.0 mi.

Depth of Haul 10 fms.

Apparatus and Rigs used 10' Fath. 10' fms.

Line, Towing, etc. 100 fms. 100 fms.

Time towing - h. 20 m.

Remarks: The boat used is -

Towing out and in 80 fms.
when 180 fms. were out.

SOUNDING WIRE.

M. DOWN. | UP. | M.

FMS.

DREDGING CABLE.

M. DOWN. | UP. | M.

8 27 00	9 31 00	0	8 34 45	9 11 00
8 20 12	9 25 10	100	8 38 43	9 06 30
		200	8 41 30	
		300	8 45 00	9 11 52
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		
		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		
		4100		
		4200		
		4300		
		4400		
		4500		
		4600		
		4700		
		4800		
		4900		

Dredge } No. 57213. Date, 20. 1908.
Hydrog. }
Sdg. Mch. 25. Reel 57. Shot Lead 25 lbs.
Turns 81 Cor'n 80° E 79 Depth 80 fms.
Sdg. Cup Amt. Bot'm Sample 25 lbs.
Character of Bottom Silt
Thermom. { Make none used Cor'n { Instr. —
{ No. Stem.
Bottom Reading — Cor'd Temp. —
Temp. Surf. { 81° Time 10:42 a.m. 82°
{ 81° Time 11:10 a.m. Air 82°
Density: Surf. 1.02489 fms.
Wind: Direction N.E. Force 1
Baromet. 29.80 Amt. of Clouds 3 State of Sea S
Weather 7c₃
Direction and Force of Current { Surface
of Current. Bottom
Tide 1.1. Lat. 11° 14' N; Long. 117° 42' E; 85' m.
General Locality Belice, British & Spanish
Can. Androco (W), 11° 18' E. - Yaxcarnau (E. S.),
Position 12° 15' 08" N - 123° 55' 20" E. Lat. 81° W.
Chart used: No. C.S. 4715 Ed'n —
Drift: Direction N. 22.7° Distance 8 m.
Depth of Haul Bottom
Apparatus and Rig used
Time towing — h. 20 m.
Remarks:

SOUNDING WIRE.

M. Down. | UP. | M.

12 27 15 10 39 25
12 28 15 10 38 15 81

FMS.

DREDGING CABLE.

M. Down. | UP. | M.

0	10	10
100	10	10
200	10	10
300		
400		
500		
600		
700		
800		
900		
1000		
1100		
1200		
1300		
1400		
1500		
1600		
1700		
1800		
1900		
2000		
2100		
2200		
2300		
2400		
2500		
2600		
2700		
2800		
2900		
3000		
3100		
3200		
3300		
3400		
3500		
3600		
3700		
3800		
3900		
4000		
4100		
4200		
4300		
4400		
4500		
4600		
4700		
4800		
4900		

Dredge No. 1 Date, Oct. 1, 1905

SDG. Mch. 1000 Reel 1 Shot 1 lbs.

Turns 218 Cor'n 218 Depth 218 fms.

SDG. Cup Tigeles Amt. Bot'm Sample 4 oz.

Character of Bottom on M

Thermom. { Make 123 Cor'n { Instr. -25
No. 108023 Stem. -42

Bottom Reading 52.1° Cor'd Temp. 51.4°

Temp. Surf. { 82° Time 9:10 a.m. Air { 81°
81° Time 9:40 Air 81 1/4°

Density: Surf. 1.02475 fms. 1.02485

Wind: Direction Calm Force 0

Baromet. 29.79 Amt. of Clouds 1 State of Sea 0

Weather 7 C.

Direction and Force { Surface
of Current. Bottom

Tide C 2.6 mi.

General Locality /

Position 2° 15' S. 125° 37' 15" E. (S. 1/2 N. 1/2)

Chart used: No. 4751 Ed'n

Drift: Direction N 36° E. Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used / Time towing 1 h. 20 m.

Remarks: /

Deck Officer W. H. J. Recorder /

Dredge } No. 5215 Date, Apr. 21, 1908
Hydrog }

Sdg. Mch. Lucas Reel Lucas Shot } 315 lbs.
Lead }

Turns 65 fms. Cor'n Depth 624 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 3 oz.

Character of Bottom gun M.

Thermom. { Make N.Y. Instr. -25
No. 108023 Cor'n { Stem. -41

Bottom Reading 57.2 Cor'd Temp. 50.5

Temp. Surf. { 81° Time 11 05' Air 82°
82° Time 11 33' 82 1/2°

Density: Surf. 1.02440 fms. 1.02441

Wind: Direction Force 0

Baromet. 29.76 Amt. of Clouds 1 State of Sea 28

Weather 10.

Direction and Force { Surface
of Current. Bottom

Tide

Palanog St. S 5°30' E., 8.45 mi.

General Locality Catbalau Pt W Pandan Pt

(Licoos) N 5 1/2 W between Masbate and Cebu

Position 12-31-30 N - 123-35-24 E.

Chart used: No. 4715 C8 Ed'n

Drift: Direction 877° E. Distance 1.2

Depth of Haul bottom

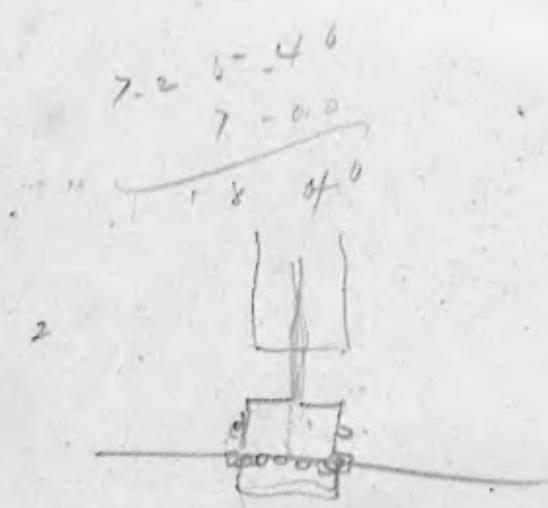
Apparatus and Rig used as before

Time towing h. 20 m.

Remarks: Hatch broken so could not record times at sounding.

Deck Officer Mr. Cassidy Recorder Roberts
11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.			
<u>M.</u>	DOWN.	UP.		<u>M.</u>	DOWN.	UP.	<u>M.</u>
1020	10		✓	0	110345	1220	10
			✓	100	110745	1700	
			✓	200	111120	1350	
			✓	300	111455	1020	
			✓	400	111800	0645	
			✓	500	112130	120320	
			✓	600	112500	5940	
	604	700			112815	5620	
				800	113200	113200	
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			



$$\begin{array}{r}
 180 \\
 78 \\
 \hline
 52
 \end{array}$$

D. 5181.- 1.02544.

Didomis
5200 - 02